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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/697,994	10/30/2003	Takeshi Uchihara	81788.0260	7396	
26021 7	590 06/17/2004		EXAMINER ERDEM, FAZLI		
HOGAN & H 500 S. GRAND	ARTSON L.L.P.				
SUITE 1900	, III BINDE		ART UNIT	PAPER NUMBER	
LOS ANGELE	S, CA 90071-2611		2826	2826	
			DATE MAILED: 06/17/2004	4	

Please find below and/or attached an Office communication concerning this application or proceeding.

			1 4 114/)				
		Application No.	Applicant(s)	ØX			
	Office Assistant Court	10/697,994	UCHIHARA ET AL.	•			
	Office Action Summary	Examiner	Art Unit				
		Fazli Erdem	2826				
- Period fo	 The MAILING DATE of this communication r Reply 	appears on the cov r	sheet with the correspondence add	ress			
THE N - Extens after S - If the I - If NO - Failure Any re	DRTENED STATUTORY PERIOD FOR REMAILING DATE OF THIS COMMUNICATION sions of time may be available under the provisions of 37 CF (SIX 6) MONTHS from the mailing date of this communication period for reply specified above is less than thirty (30) days, a period for reply is specified above, the maximum statutory period for reply within the set or extended period for reply will, by supply received by the Office later than three months after the not patent term adjustment. See 37 CFR 1.704(b).	ON. R 1.136(a). In no event, howev n. a reply within the statutory minin priod will apply and will expire Si tatute, cause the application to I	er, may a reply be timely filed num of thirty (30) days will be considered timely. X (6) MONTHS from the mailing date of this con become ABANDONED (35 U.S.C. § 133).	nmunication.			
Status							
1)🖾	Responsive to communication(s) filed on 3	80 October 2003.					
2a)□	This action is FINAL . 2b)⊠	This action is non-final	•				
		e this application is in condition for allowance except for formal matters, prosecution as to ed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims							
5)□ (6)⊠ (7)⊠ (✓ Claim(s) 1-18 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. ☐ Claim(s) is/are allowed. ✓ Claim(s) 1,14,17 and 18 is/are rejected. ✓ Claim(s) 2-13,15 and 16 is/are objected to. 						
Application	on Papers						
9)□ T	☐ The specification is objected to by the Examiner.						
10)□ 7	☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.						
,	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
	Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121 The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority u	nder 35 U.S.C. § 119						
a)[12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.						
Attachment(•						
	of References Cited (PTO-892) of Draftsperson's Patent Drawing Review (PTO-948)	4) ∐ Ir \	nterview Summary (PTO-413) aper No(s)/Mail Date				
3) 🛛 Inform	ation Disclosure Statement(s) (PTO-1449 or PTO/SB No(s)/Mail Date 10/30/2003.		otice of Informal Patent Application (PTO-	152)			

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DETAILED ACTION

Allowable Subject Matter

1. Claims 2-13, 15 and 16 objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Claim Rejections - 35 USC § 103

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3. Claims 1, 14, 17 and 18 rejected under 35 U.S.C. 103(a) as being unpatentable over Hideyuki et al. (JP 08086580) in view of Hossain et al. (2004/0108544).

Regarding Claims, 14, 17 and 18, Hideyuki et al. disclose a high-voltage semiconductor device with a substrate 1, an insulating layer2, a lightly doped p region 3, p-doped regions 4a and 4b, and an n-doped region 7 with heavily doped n regions 5 ang6. Furthermore, the device includes an electrode 10 and insulating layer 11. Hideyuki et al. fail to disclose the junction of the lightly p-doped and normal p-doped regions being under the control electrode. However, Hossain et al. disclose a high voltage MOSFET with laterally varying drain doping and method where in Fig, the junction between the lightly doped p substrate region 17 and the normally p-doped region 16 being under the gate 22.

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It would have been obvious to one of having ordinary skill in the art at the time the invention was made to include the junction region under the electrode in Hideyuki et al. as taught by Hossain et al. in order to have a semiconductor device with higher reliability.

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Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Fazli Erdem whose telephone number is (703) 305-3868. The examiner can normally be reached on M - F 8:00 - 5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nathan Flynn can be reached on (703) 308-6601. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

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system, contact the Electronia Burnishs Center (ESC) at 866-217-9197 (toll-free).

TECHNOLOGY CENTER 2800

FE June 10, 2004